

- DEPARTMENT OF PREMIER AND CABINET
 NEW SOUTH WALES

 CABINET STANDING COMMITTEE ON INFRASTRUCTURE
 DECISION PAPER
 Widnestup II, Desember 2013

 ITEM 10: Newcastle Revitalisation Bisjeet (SCS772015)

 The Committee:

 10.1 Engineers the logistion for trituralitysthe leggs railities at Wickham to scenario graphenightion of light rail.

 10.2 Agreed that further work will be unsignified to flexibility and infrastructure for report back to the CIC in Televisty 2014 signific following:

 business cases for two routlyshims (not in the heavy rail corridor and one along Hunter Styleth)

 development of urban rehignal options (and estimation of their contitionts to project begins) and the supposition (and estimation of their contitionts to project begins) and the supposition (as in the heavy rail corridor and one along Hunter Styleth)

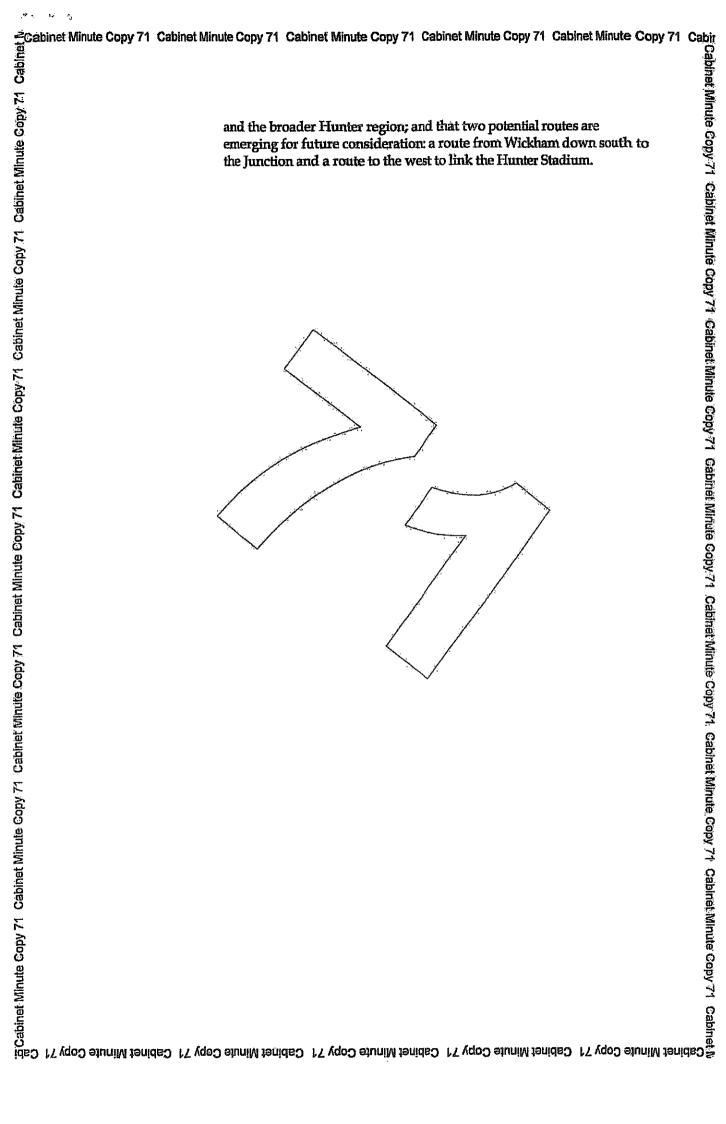
 a recommendations on optimal project delivery governance.

 10.3 Agreed that the Minister for Planning and the Minister for Transport will coordinate a public amountment by the end of 2013 to keep the Bunter community informed of progress with the project. This should rain to route and urban reaswed options under investigation and their indicative high rannoundment which was more investigation and their indicative high rannoundment under investigation and their indicative high level construction threshole.

 10.4 Noted that further amendments to the Newcastle Local Environmental Plan to support collaptive studies the environmental Plan to support collaptive studies that in early 2014.

 10.5 Noted that the final Urban Reaswed Strategy will be released orous the city control light rail algument has been continued.

 10.6 Noted that the proposed light and allowing as the final potential wide light rail network linking the CED with surrounding subury, key destinations.



NEW (SOUTH WALES – CONFIDENTIAL CABINET MINUTE SC577-2013
Title	Newcastle Revitalisation Project
Minister	Hon. Gladys Berejiklian MP Minister for Transport
Date of Minute	9 December 2013
Relationship to Previous Decisions	CM 12 - 392 Newcastle Urban Renewal – Department of Planning and Infrastructure, December 2013. Advances previous decision by identifying the preferred location for the truncation of the heavy rail line at Wickham and the preferred light rail alignment in the Newcastle CBD
Result of consultations	Agreed
Priority	Routine
Legislative Changes Required	No
Regulatory Impact	No
Minute Type	Policy
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Relationship to	CM 12 - 392 Newcastle Urb	an Renewal - Department of
Previous Decisions	Planning and Infrastructure,	December 2013.
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	location for the truncation of	the heavy rail line at
	Wickham and the preferred	ight rail alignment in the
4	Newcastle CBD	

Result of consultations	Agreed
Priority	Routine
Legislative Changes Required	No
Regulatory Impact	No

- 1 EXECUTIVE SUMMARY

 1.1 Urban renewal of Newcastia, NSW's second largest city, is a key government priority. In Deamber 2015, the Minister for Planning and investment priority. In Deamber 2015, the Minister for Planning and investment priority. In Deamber 2015, the Minister for Planning and investment priority. In Deamber 2015, the Minister for Planning and investment priority. In Deamber 2015, the Minister for Planning and investment priority. In Deamber 2015, the Minister for Planning and investment priority. In Deamber 2015, the Minister for Planning and investment priority. In Deamber 2015, the Minister for Planning and investment and the truncation of the Newcastile Rail Line. The Urban renewal strategy proposes a commencense van Integrated suite of initiatives to deliver urban renewal in the city centre.

 1.2 The renewal strategy was released along with the government's announcement that buses will replace trains from Wickham station, to open up a number of additional north-south connection points between the city and its waterfront, and regresse an expectation of the Newcastle city centre.

 1.3 The government has simple antiqued that the delivery of light rail in the Newcastle city centre.

 1.4 Extensive work has now been indertaken to gleentify and assess options for the location of the heavy pall-discribers to buse and light rail, including options at Wickham, Elamilier, Hamilton Junction and Broadmeadow.

 1.5 Wickham tigs been identified as the preferred location for the Pleavy rail truncation of the heavy rail line can occur at each preferred to a second register of the place of the preferred location of the place of

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 D. In addition, five new pedestrian crossings of the confidor will be opened up, in some instances replacing pedestrian bridges. These include between Hunter Trate, west of The Confidence between Hunter Trate and Botton Street.

 1.10 A combined railway Confidence Hunter Street and Botton Street.

 1.110 A combined railway Confidence Hunter Street and Botton Street.

 1.110 A combined railway Confidence Hunter Street and Botton Street.

 1.111 A combined railway Confidence Hunter Street is not the preferred option due to:

 1.111 In space constraints, particularly through the Hunter Street Mall and at the west-legible flooring and portunities and streat greening and option due to:

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 1.111 In space constraints, particularly through the Hunter Street Mall and at the west-legible flooring and portunities and streat greening and option was also entertainted and diling apportunities and streat greening and option was also entertainted and diling apportunities and streat greening and option was also entertainted and diling apportunities and streat greening and option was also be the stream of the Newcastile Community.

 1.112 Higher cross legitiviths analysic and light seal stream of interests to the Newcastile Community.

 1.113 Higher cross is greater delivery risks and Jurpach Hunter Street light rail in the rail confidence was a property of the preferred light rail in the rail confidence was a property of the reasons for the proposed project are outlined in the table below:

 1.112 Higher cross is greater delivery risks and Jurpach actions across the city confidence.

 1.113 Higher cross is greater delivery risks and J

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KEY CRITERIA	Preferred Option Project Benefits
V Enabling Urban	 A new transport interchange at Wickham allows the greatest potential for transit oriented development at the heart of the new CBD at Wickham with 675,000 m² gross floor area of developable land within 400m radius
Revitalisation and Connecting the City Centre	 A new light rail terminus at Pacific Park provides potential for new residential development in surrounding streets
with the foreshore	 The delivery of a light rail connection to the beach provides up to 11 locations for road or pedestrian crossings to be implemented, delivering reconnecting Newcastle to its foreshore.
Supporting Future strategic	 A new transport interchange at Wickham supports the Newcastle/ Urban Renewal Strategy, with the development of Wickham as a major destination and Newcastle's CBD
Planning	 Allows footpath widening, cycle ways and greening activities in Hunter Street, in line with the Newcastle Urban Renewal Strateg
	A new interchange at Wickham allows the greatest number of heavy rail customers an uninterrupted journey to the CBD
/	The interchange will be fully at-grade with end-of-platform entry, exit and transfer between heavy rail, light rail, buses and taxis
Maximising Customer Experience	Light rail within the railway corridor provides a faster journey for light rail customers
	 A light rail terminus adjacent to Pacific Park will provide high quality amenity for customers and good passive surveillance for customer safety.
	A new interchange at Wickham allows the closure of three level crossings at Merewetiner Street, Stewart Ave and Railway Street
	 A Wickham interchange minimises impacts on the rail freight network
Maximising Transport Network Efficiency	 A light rail alignment of approximately 2.5km between Wickham and Newcastle Beach will allow more frequent light rail services with fewer light rail vehicles
	 Light rail within the railway corridor will minimise impact on the traffic network and reduce delays for road traffic and light rail customers
	Light rail in the railway corridor minimises project delivery risks;
Minimising Construction and	It is more cost effective to deliver light rail within the existing heavy rail corridor than on Hunter Street; I talk all in the consider will allow the second extractions.
Operational Costs	 Light rail in the corridor will allow the re-use of some existing heavy rail infrastructure for light rail;
	 The provision of a 2.5km light rail solution can be delivered within the existing budget allocation
Minimising Delivery Risk	 Delivery of light rail within the rail corridor minimises interaction between customers and construction activities
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 Construction of light rail within the rail confider will have fewer inspects on local business and the transport instructs that on-road construction in Hunter Street, with fewer delivery risks.

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 Capacite to be consulted on all sepects of the Newcastile light rail project, including the location of a heavy rail terminus and light rail intendiages.

 4.1.2 An inclusive community engagement process in early 2014 will sensist with reducing this risk. This will include providing does information about how the options were arrived et, opportunities and consentrate of each and how the promising sensity of Environmental Impact Statement (EIG) or a Review of Environmental Impact Statement (EIG) or Review of Environment (EIG) or Review of Environ

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initiatives ider Renewal Stra	ntified in the l	Department of Decision 1	of Planning an 0/12/12).	d Infrastructu	re's								
5.7 Early feasibili base case es	ty level engir timate for the	vel engineering indicates that savings up to \$60m of the ate for the project may be possible from:											
5.7.1 Locati d Hamilt	on of heavy r	ail stabling o	east of Hamilton	n station, inst	ead of								
5.7.2 Re-des	sign of the tu kham.	rn-back and	provision of 3	rather than 4	platforms								
5.8 Extending to 350m beyond approximately	Newcastle B I Newcastle ? v \$30-40M.	each (Pacifi Station via S	c Park) at Telfo cott Street, will	ord Street, an increase cos	additional ts by								
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initiatives idea Renewal Stra 5.7 Early feasibility base case es 5.7.1 Location Hamilty 5.7.2 Re-destat Wick 5.8 Extending to 350m beyond approximately	Previous Base Case	In corridor New base case Eg to Watt	to Pacific Park (Beach Option)	On road from	m Bellevije S to Pacific Pa								
The second secon	\$m	\$m	\$m	\$m	\$m								
Wickham (includes \$220m for truncation)	450	390	430 (preferred)	570	600								
<u>Hamilton</u> (includes \$223m for truncation)		460	500	640	670								
<u>Broadmeadow</u> (includes \$274m for truncation)		600	640	780	510								
Hamilton/Wickham split		500	540	680	710								
(includes \$266m for truncation)	1				· · · · · · · · · · · · · · · · · · ·								
Terminus Options Wickham (includes \$220m for truncation) Hamilton (includes \$223m for truncation) Broadmeadow (includes \$274m for truncation) Hamilton/Wickham split (includes \$266m for truncation)	Care i a manumente la												

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 5.9 Further design and operational investigations are required before scope can be finalled and costs confirmed. This includes defining the design of the future light rail confider and whether before strongs. It halleded track was to be finalled and costs confirmed and reave was defining the design of the control of the read of the control of the cont

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proposal for light rail from Wickham to Newcastle and the truncation of the Newcastle rail line at Wickham.

- 6.7 \$10 million has been allocated to explore the potential for this central light rall link to be the basis for light rail linking the CBD with surrounding suburbs, beaches and the broader Hunter region.
- 6.8 Light rail will enhance and accelerate the city centre's renewal and will deliver greater north-south connectivity between the city centre and its waterfront and increased public transport choices. It will promote transport. access and connections in and around the city centre.
- 6.9 The delivery of light rail in the Newcastle city centre may open up development opportunities within the former corridor at the eastern end, adiacent to Scott Street. For these opportunities to be realised, the government's previous position of retaining the corridor in public ownership (cabinet decision 12-392) will need to be revisited.
- 6.10 Given the context has significantly changed since the prior decision, with \$340 million of additional government investment committed and a different public transport solution, it is reasonable to re-evaluate this commitment for this section of the corridor in light of also seeking to arrive at the optimum light rail route from a collective renewal and transport perspective.
- 6.11 Once Transport for NSVV have finalised the preferred light rail alignment in early 2014, the department can finalise its renewal strategy,

Transport Options Identification

- 6.12 TRNSW, in consultation with other agencies and key stakeholders, has undertaken a comprehensive process to identify the best solution for Newcastle considering:
 - the best location for a heavy rail-términus and light rail 6.12.1 interchange: and
 - the best light rail route alignment within the city centre. 6.12.2
- 6.13 The options were identified through a variety of sources including:
 - 6.13.1 workshops with representatives from state agencies and Newcastle City Council;
 - 6.13.2 transport cluster workshops and meetings;
 - kev stakeholder submissions and reports; 6.13.3
 - 6.13.4 review of media coverage and public response;
 - 6.13.5 an audit of previous technical reports and studies; and
 - 6.13.6 site and route inspections for each option.

Options Assessment

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 8.23.4 Frequency is a key driver of the forecast patronage and a shorter light rail line solution between Wickham and the easiern end of the city centre would allow the provision of more frequent light rail line solution between Wickham and the easiern end of the city centre would allow the provision of more frequent light rail services using fewer light rail vehicles.
 6.23.5 International case studies provide good examples of successful light rail services of comparative length, including Seville (1 4km); Tacoma, Washington (2.5km); and Seattle, Washington (2.5k

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 6.29 This data will also be used to inform the number and fraquency of light rail vehicles required to accommodate heavy rail passengers transferring to light rail services at Worksham.

 6.30 Terminating heavy rail services at Wickham minimises the suntherrupted access to the CBD for the 570 outsomers currently alighting at Wickham Station each day.

 6.31 Light rail would provide those passengers currently alighting at Wickham Station each day.

 6.31 Light rail would provide those passengers currently alighting delivers those customers elighting at Civic Station (675 deliy) and Newcaste Station (890 deliy) the opportunity to continue by light rail to their destination.

 6.32 As Wickham has been rightless the set business precinct under the Newcaste Urban Receipts Station (675 deliy) and Newcaste Station (890 deliy) the opportunity to continue by light rail to their destination.

 6.33 A bespoke demand model was built (from bility collected, including passenger counts and originated station as surveys in September 2013) to consider the statistical passengers currently aligned to the continue to the statistical passenger currently aligned to the continue to the statistical passenger currently aligned to the continue to the statistical passenger currently aligned to the continue to the statistical passenger currently aligned to the continue to the statistical passengers to the beart of the CISS.

 Data. Demand Forceasts

 6.34 A bespoke demand model was built (from bility collected, including passenger counts and originated to the city of the current passengers to the testing aligned to the statistical passengers and originated to the city of the current passengers and originated to the current passenger currently aligned to the current passengers and the removed of some buses along the entire length of Hunter Street.

 6.34.1 Passengers transferring from other models would be removed.

 6.35.2 The current city centre bus fair, the suggest of the current length

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- light rail link to be the basis for light rail linking the CBD with surrounding suburbs, beaches and the broader Hunter region.
- 6.59 Work has commenced to determine the best location for a future light rail network and to ensure that current planning for the core light rail alignment in the city centre does not preclude future extensions of the
- 6.60 From a Wickham interchange, one potential future extension could head west, in-street, towards the south of Beaumont St, Broadmeadow and the Hunter Stadium. Another extension option could head south to the Junction (ATTACHMENT I). Potential future extensions are subject to further planning work.
- 6.61 This work is now being expanded upon and will be finalised in Q4 2014, with a focus on key destinations including, but not limited to Hunter Stadium, John Hunter Hospital, Mater Hospital, key entertainment and shopping precincts, and the University of Newcastle.

Road and Freight Issues

- 6.62 A key criteria in the assessment of options for the heavy rail terminus and light rail interchange was to maximize the transport network efficiency which considered the impact on the wider transport network including road and freight.
- 6.63 Location of the new interchange at Wiskham does not create the same rail freight impacts of the Broadmeadow, Donald Street and Hamilton Junction options.
- 6.64 The Wickham truncation will result in the removal of three railway level crossings, with two converted to road/light rail crossings (Stewart Ave and Merewether St), and one closed to all traffic, subject to further investigation (Railway St);
- 6.65 Railway Street is a low level local road and that the impacts of the potential closure of the street are manageable and not significant.
- 6.66 Impacts on road traffic, cars, delivery vehicles, pedestrians and cyclists are an important consideration in the assessment of the light rail route alignment.
- 6.67 The preferred light rail route alignment is the Railway Corridor and Scott Street. The advantages of this option include:
 - Minimises travel times for road traffic and light rail customers. whereas a full Hunter Street solution would increase travel times for traffic and light rail customers;
 - 6.67.2 Reduces the removal of on-street parking in the retail precinct;
 - 6.67.3 Reduces removal of loading zones to access businesses in the retail precinct;
 - 6.67.4 Avoids the relocation of bus stops and taxi ranks in Hunter Street;
 - 6,67.5 Increases space for cycleways on Hunter Street; and

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 8.67.6 Retains opportunities for footpath widening, activity zones and greening in Hunter Street, all key initiatives outlined in the Newcastle Urban Renewal Strategy

 6.68 Bus servicing Strategy

 6.68 Bus servicing plans for the Newcastle Light Rail have been developed for the three stages of the project, as follows:

 6.69 Stage 1: during the construction of the heavy rail terminus and bus and light rail interchange at Wickinsm when the train services on the Newcastle Branch Line will be termined at Broadbased or Hamilton;

 6.69.1 The closure of the Newcastle Branch Line phylically occurs four times each year forb, weekend or up to two weeks by Sydney Trains and (SSV) Trainsic undertake essential maintenance works on the Main Might and Hunter Line would termined at Douglass and Misquesalle:

 6.89.2 During the construction of the new years at terminus and bus interchange at Wickinsm and the second of the new years and the Central Spatial and Hunter Line would termined at Douglass and Misquesalle:

 6.89.3 Typ6 bus singless would replace frain from Sydney and the Central Spatials and the all stops to Deservices, on Servicing all staining with the stages of the project, as a service would stain and the national stages of the project and the services, one Services and the stages of the project and the services, one Services and the stages of the project and the services would stop at 10 colors and septimental power light rail stops between Wickinsm and then all stops to Deservices, will said by services would stop at 10 colors as services, one Services, it is anticipated that these services can be sincered for the construction period rather styll, exclassing providing declared rail replacement services.

 6.70 Stage 2: During the construction of the lightfrail line, light rail stops stabiling and light rail depot facilities:

 6.70.1 Once the new terminus at Wickinsm is operational, a shruttle bus service will be provided and the services and substantial proje Rew South Walles - Conflict Minute Copy 71 Cabinet Minute Sizes 2 Conflict Minute S

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 6.7.1.1 Following the delivery of light rall in the city centre, bus services travelling on Hunter Street and to Queens Whartwould be significantly reduced, while increased bus services would service Marketown and Wickham Interchange at the easiern end of the CBD.

 Progress of planning work

 6.7.2 Finalisation of the new planning framework for the city centre is progressing. This involves the final renewal strategy, amendments to council's Local Environmental Plan(LEP) and a Development Confrol Plan (DCP).

 8.7.3 In resolving issues (\$\frac{1}{2}\text{String}\text{with the potential to be significant; catalysts for wider renewal adjust with the potential to be significant; catalysts for wider renewal adjust with the potential to be significant catalysts for wider renewal adjust with the potential to be significant; catalysts for wider renewal adjust with the potential to be significant; catalysts for wider renewal adjust with the potential to be significant; catalysts for wider renewal adjust with the potential to be significant; catalysts for wider renewal adjust with the potential to be significant; catalysts for wider renewal adjust with the potential to be significant; catalysts for wider renewal adjust with the potential to be significant; catalysts for wider renewal adjust with the potential to be significant; catalysts for wider renewal adjust with the potential to be significant; catalysts for wider renewal adjust with the potential to be significant; catalysts for wider renewal adjust with the catalysts of the sidney of the sidney and proportion the sidney and the sidney and proportion of the sidney and proportion with the sidney of the sidney and proportion with the sidney of the sidney and proportion with sidney and proportion with the sidney and proportion with sidney and proportion with sidney and p REW SOUTH WALES - COMPOSITION IN THE SECRET PAIR OF THE MINUTE SECRET

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 needed for different parts of the city centre and corridor. Therefore the strategy will be finalled once the final city centre light rall alignment is known.

 Implementation Schedule

 8.80 There are a number of potential ways of staging construction works. Each has a differing impact on customers, stateholders and the speed with which the corridor can be operad up to facilitate the revitalisation of Newcastle.

 8.81 The approaches are:

 6.81.1 a transport customer-centric approach which maintains heavy rall access to Mewcastle.

 6.81.2 an urban invitalisation spiritic approach which maintains heavy rall access to Mewcastle.

 6.81.2 an urban invitalisation spiritic approach which provides access between the OEO and the long-long as soon as possible; and

 6.81.2 an urban invitalisation spiritic approach which provides access between the OEO and the long-long as soon as possible; and

 6.81.3 an urban invitalisation of the stage of the project the proposed approach entalls the bringstage of the project the proposed approach entalls the bringstage of the project the proposed approach entalls the simple of the project construction works commences in 03.2015.

 6.83.1 Enalphing work can still get underway in Q1 2015.

 6.83.2 The allows sufficient time to sistellise a robust temporary operating configuration and secure signature, approvals;

 6.83.3 Minimises the time for which backgrean are ginded to be the CBD given that Broadmeadow or Hamilton girls bus to their destination in the CBD given that Broadmeadow or Hamilton girls bus to their destination in the CBD given that Broadmeadow or Hamilton girls bus to their destination in the CBD given that Broadmeadow or Hamilton girls bus to their destination in the CBD given that Broadmeadow or Hamilton girls bus to their destination in the CBD given that the proposed of the project.

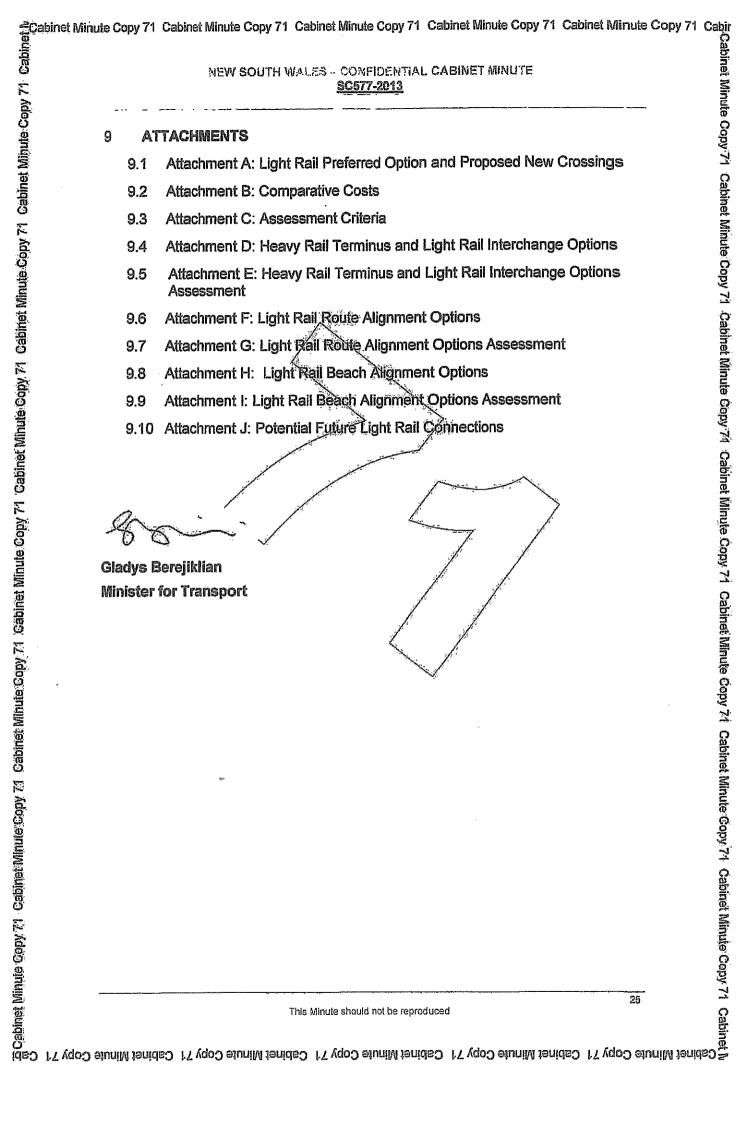
 6.83.6 Revitalisation is enabled with additional crossing points bei

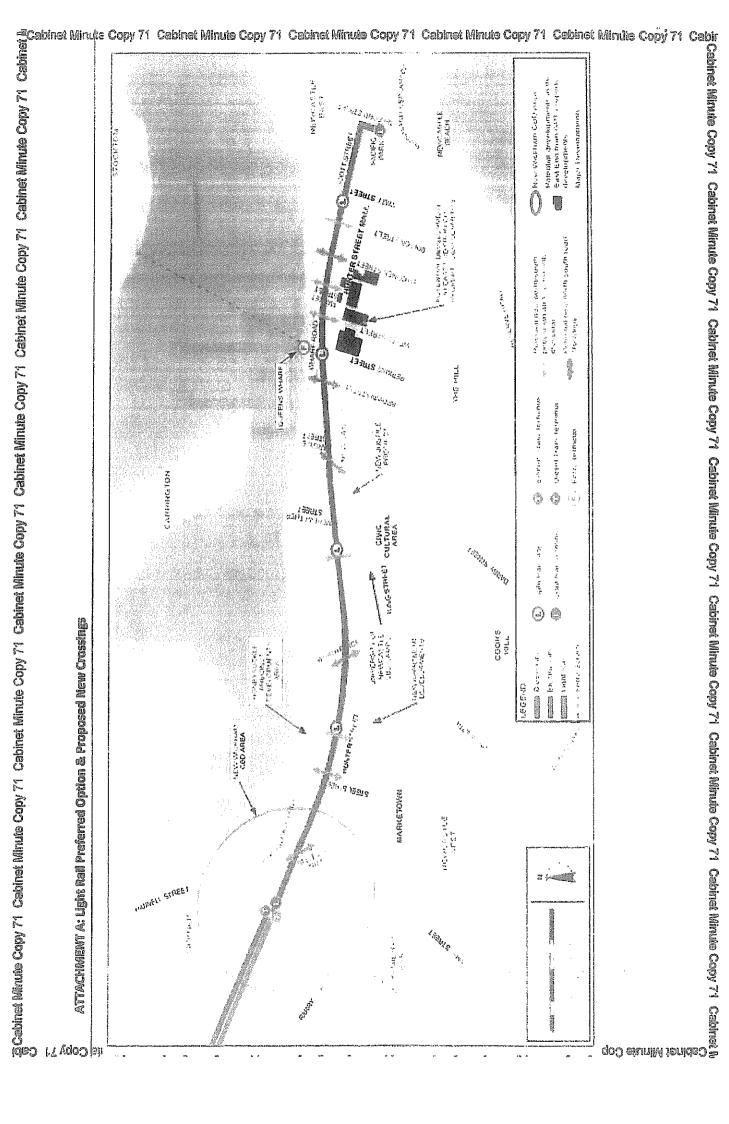
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new interchange and imp should be noted that furt	neframes associated with plementation of light rail ar her work is required to def regarding statutory appro	e set out below. It ine these timeframes in
Milestone 4	Delivery of a new Heavy Rail Terminus	Celiver, of a Light Rail Solution
Appoint Engineering & Operations PSC	Q4 2013	Q1 2014
Product Definition Report & Business Requirements Specification	Q1 2014	Q2 2014
Community Consultation - Light Rail Alignment		Q1 2014
Scoping Phase Report (incl. Cost Estimate, Delivery Schedule)	022014	Q4 2014
Definition Phase Report (incl. Cost Estimate, Delivery Schedule)	03 2014	24 2014
Planning Approval – Heavy Raii Interchange (REF assumed)	Q1 2015	
Planning Approval – Light Rail (EIS)	1	Q3 2015
Request for Tender – Design & Construction	94 2014	Q1 2015
Earliest possible date for Rail truncation (Urban revitalisation centric approach)	Q4 2014	Q4 2014
Contract Award	Q1 2015	Q3 2015
Construction Start (Enabling Works)	End Q1 2015	Q4 2015
Proposed truncation date	Q3 2015	Q3 2015
Full Construction Starts	Q3-2015	Q1 2016
Latest possible date for Rail Truncation (Transport customer-centric approach)	Q1 2016	21 2016
Construction Complete	Q1-2017	Q1-2017 (or Q3-2017 ii in sinset)
Interchange (REF assumed) Planning Approval – Light Rail (EIS) Request for Tender – Design & Construction Earliest possible date for Rail truncation (Urban revitalisation centric approach) Contract Award Construction Start (Enabling Works) Proposed truncation date Full Construction Starts Latest possible date for Rail Truncation (Transport customer-centric approach) Construction Complete		23
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 6.86 Further work is required to define timeframes in greater detail.
 6.87 Enabling works for the heavy rail work involve relocation of existing services that are required for the continued safe operation of the railway during construction up until they are no longer required or are replaced with new systems.
 6.88 Enabling works for light rail relate to cleaning the construction zones of any services and utilities, particularly those that must remain in continuing operation during the construction period such as electricity, gas and telecomes services. For light rail options within the stress arrangements for temporary property access would also be undertaken.
 6.89 Full construction Refer to the delivery of stabling, station platforms, signaling, interchangle facilities, staff facilities, customer information and wayfinding and other interactions.
 6.90 Enfect date for all turnation to support reconnecting the CBD to the foreshore is dependent upon generational registrations, funding requirements and is subject to further investigations.
 6.91 Latest date for all turnacion to support reconnecting the CBD to the foreshore is dependent upon generational registrations, funding requirements and is subject to further investigations.
 6.91 Latest date for all turnacion to support reconnecting the CBD to the foreshore is dependent upon generational registrations, funding requirements and is subject to further investigations.
 6.91 Latest date for furuncation the subject reconnecting the CBD to the foreshore is dependent upon generational registrations for the property funding requirements and is subject to further investigations.
 6.92 Latest date for furuncation the visit of shallow contract the funding and the stress of the city, attracting private development and making it a diverse, vibrant and attractive places for visitors and 10,000 jobs by 2036,
 7.3 Remitting the Newcastle city centre with its foresterfork will unlock the enormous potential of the city, att





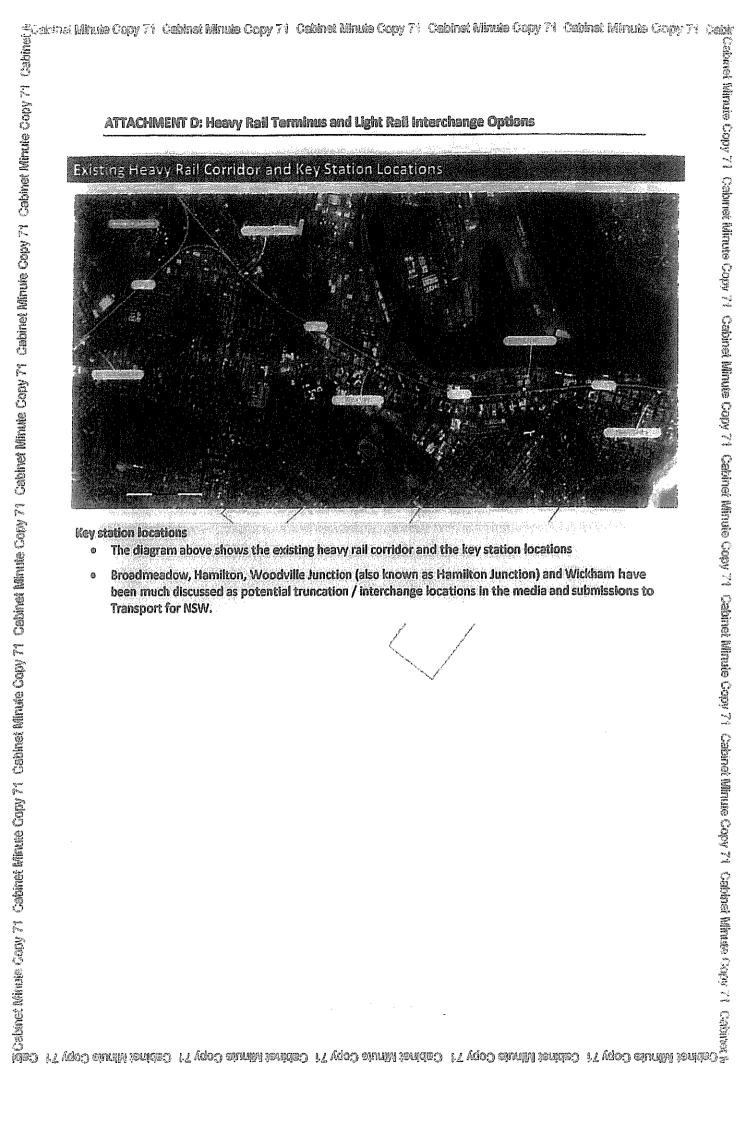
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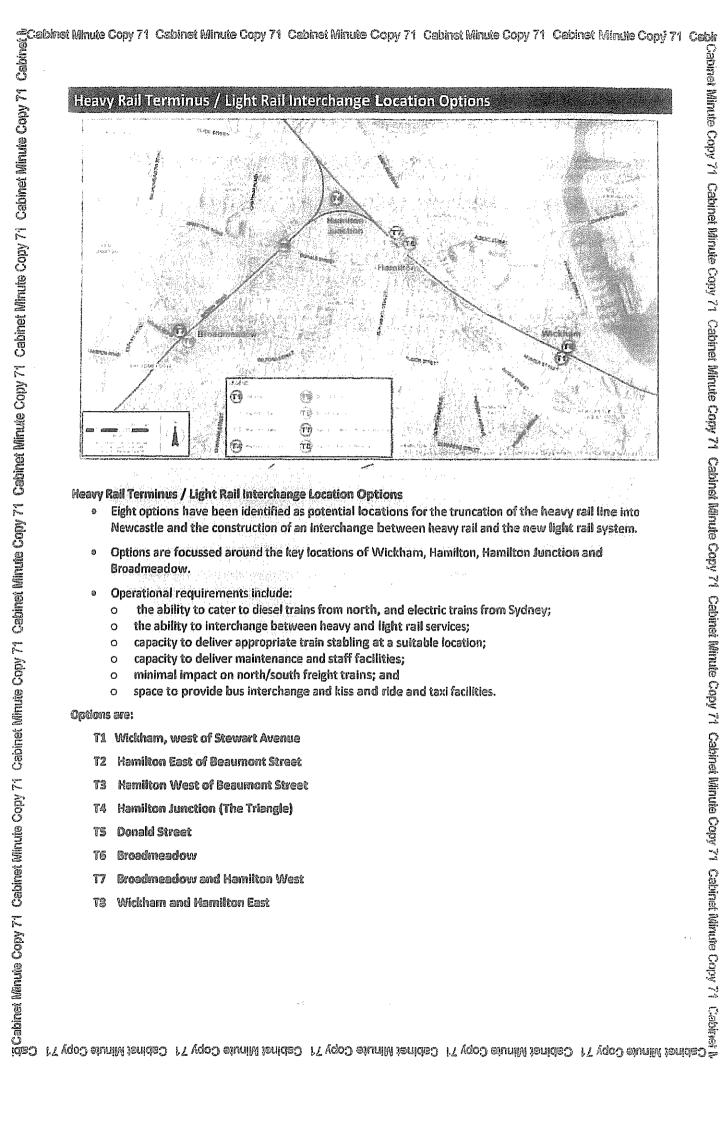
Indicative Cost Estimate for heavy rail truncation and construction of new interchange	Wickham Hamilton Broadmeadow Spik Option E&P Jen 2013	\$25,702,495 \$24,244,204 \$20,905,430 \$45,628,051	\$13,564,620 \$34,061,920 \$21,364,260	\$21,924,733 \$23,929,090 \$18,989,710 \$36,397,673 \$16,984,972	\$10,000,000 \$10,000,000 \$15,000,000 \$10,000,000	(Gest of Wighten) and Medimpant Corroor 673 of 819 872 216 206 824 825 834 825 824 825 827 829 808 809 808 808	12 A20 5.74	CENTRAL COLUMN CANTRAL COLUMN CANTRA	\$44.274.978 \$43.929.25 \$45.377.500 \$43.200.448		3,300,000 3,300,000 3,300,000 0	2,500,000	18,933,298 (18,743,348 23,627,734	(\$8,306,565)	0.000000000000000000000000000000000000	penty acquistion varies depending on the option. For the truncation it has been assumed Wickham requires no properly acquisting to be acquisted at the end of Relivay Lane, which is on the northern side of the current alignment to allow the stabiling facility for equisition of a strip of road reserve from Council to allow a new felight track to be built on the western side of the rements vary with the options, fromeware there is likely to be fully to no outside his property that needs to be purchased and is likely in the control of the property of the p	2. All of the francation estimates include an altowence of \$6.5m for possession costs in line with usual practice of the rail operating branch charging the projects for their costs associated with the smount altowed in the June 2013 Evans and Peck budget estimate. Once scope is fully developed and delivery methodology severed, this force will be reviewed.	3. A 40% allowance in confingency and risk has been allowed in keeping with TPD practice for estimates at this stage of development, in addition, an allowance of 8% has been included for model to camed our between 2015 to 2017.
indicative Cost Esti			Turnoach	Station and Interchanges	Allowance for Undefined scope	A Contractor's Direct Coats (Cotal)	Contractor's Design	Cameric's Management Observand Profit	B. Confractor's Indirect Coats (Total)		Property Acquisition	Possessione	TINKINI COSE	Contingency / Risk Allowance	Escalation	Notes: 1. The estimated cost a Hemilton option would a constructed. The Broad For the light rail property	2. All of the francation estimates in with possessions. This allowance concept, this finare will be endowed.	3. A 40% ellowance in: for mice escellation on if

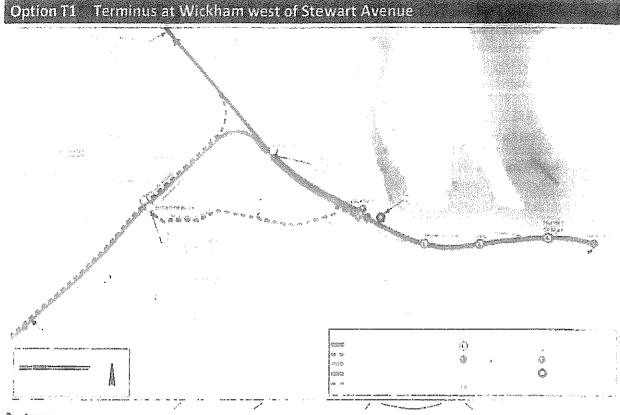
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ATTACHMENT C: Assessment Criteria Assessment criteria have been establishe rail interchange location, and the alignment	d for the strategic merit assessment of the heavy rail terminus and light ont of light rail in the Newcastle city centre. The assessment criteria are
aligned with the strategic goals of the Ne	wcastle Light Rail Project, as follows:
Assessment Criteria, Heavy Rail Term	inus and Light Rail Interchange
Strategic Objective	Criteria Land available for new development
Enabling Urban Revitalisation and Connecting the Foreshore with the City	Transit-oriented development potential
Centre	
Supporting Future Strategic Planning	Alignment with the Newcastle Urban Renewal Strategy
	e Future proofing for extensions to the wider light rail network to the west
Maximising Customer Experience	Customerjourney time including interchange requirements
, marine de la companya de la compa	Public transport integration between trains, light rail, buses and ferries
	Impacts to customers during construction
	Customer safety at stops and stations
	Overall public transport patronage potential
Maximising Transport Network Efficiency	 Traffic and bus network improvements with the removal of the railway level crossings
	Bus network efficiency within the city centre
	Impacts on freight rail operations
	Operational efficiency for heavy rail stabling and maintenance facilities
Minimising Construction and Operational Costs	 Indicative capital cost for the heavy rail terminus, light rail and bus Interchange and light rail to Newcastle in the rail comidor
·	Property required outside of the railway corridor
	Operating cost for train and light rail and bus services
Minimising Delivery Risk	Engineering constructability
	Required planning and environmental approvals
	While Copy 71 Cabinal Minus Copy 71 Cabinal Minus Copy 71 Cal

Assessment Criteria: Light Rail Core Ali Strategic Objective	gnment in the CBD Criteria
Piliting Colemie	Ease of access between City Centre and the foreshore
Enabling Urban Revitalisation and	Placemaking opportunities along the light rail route
Connecting the City Centre with the foreshore	Ability to consolidate development sites along the light rail route
	Likely increase in property values
Supporting Future Planning	Ease of connectivity for an extension to the east
	Alignment with the Newcastle Urban Renewal Strategy
Maximising Customer Experience	Patronage betential along the light rail route
	Customer journey time and reliability along the light rail route east of Wickham
	Light rail route legibility
	Impacts during construction
	Customer safety at, and walking to, light rail stops
	Level of disruption to the road network
Maximising Transport Network Efficienc	Loss of kerb space, loading access, car parking and taxis along the light rail route
	Light rail operations
Minimising Construction and	Indicative capital cost for the light rail between Wickham and Newcastle
Operational Costs	Property required outside of the railway corridor
	Operating cost for light-call in the city centre
Minimising Delivery Risk	Engineering constructability
	Required planning and environmental approvals
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Features:

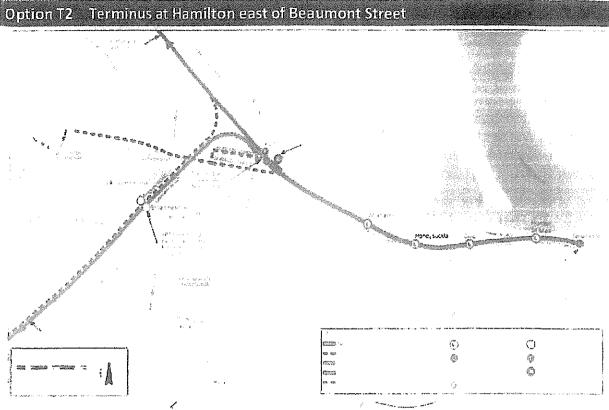
- Terminate light rall west of Stewart Avenue within the rallway corridor
- New platforms required for terminating electric and diesel trains.
- Train stabling needed west of station, east of Beaumont Street/
- Two level crossings removed from the city centre, Railway Street level crossing closed to traffic, Beaumont Street level crossing remains in place.

Advantages:

- Creates a gateway to the new CBD of Newcastle
- Best opportunity for a TOD with the most developable land in the proximity of the station, and lowest levels of mine subsidence in the area
- Provides 675,000 m2 gross floor area and 11.5 ha of unfragmented land for development at the site of the new CBD
- 2 train controlled level crossings removed
- Walkable catchment to area zoned for high density development
- Short light rall system east of Wickham with low capital cost
- Transfer to light rail direct to CBD for both Hunter Line and Sydney/Central Coast passengers
- Beaumont Street level crossing remains open but train crossing numbers are reduced, as stabling and shunting occurs east of Beaumont Street

Disadvantages

- Level crossing remains at Beaumont Street
- Railway Street level crossing may be retained, or Railway Street may be closed (subject to further investigation)
- More costly for Wider Light Rail network expansion to the west
- Transfer required for short distance between Wickham and Newcastle stations
- Need to purchase properties outside raliway corridor for bus interchange
- Shortest light rail solution at 2.3km
- Flood risk being closer to Cottage Creek and the Throsby Basin foreshore



features:

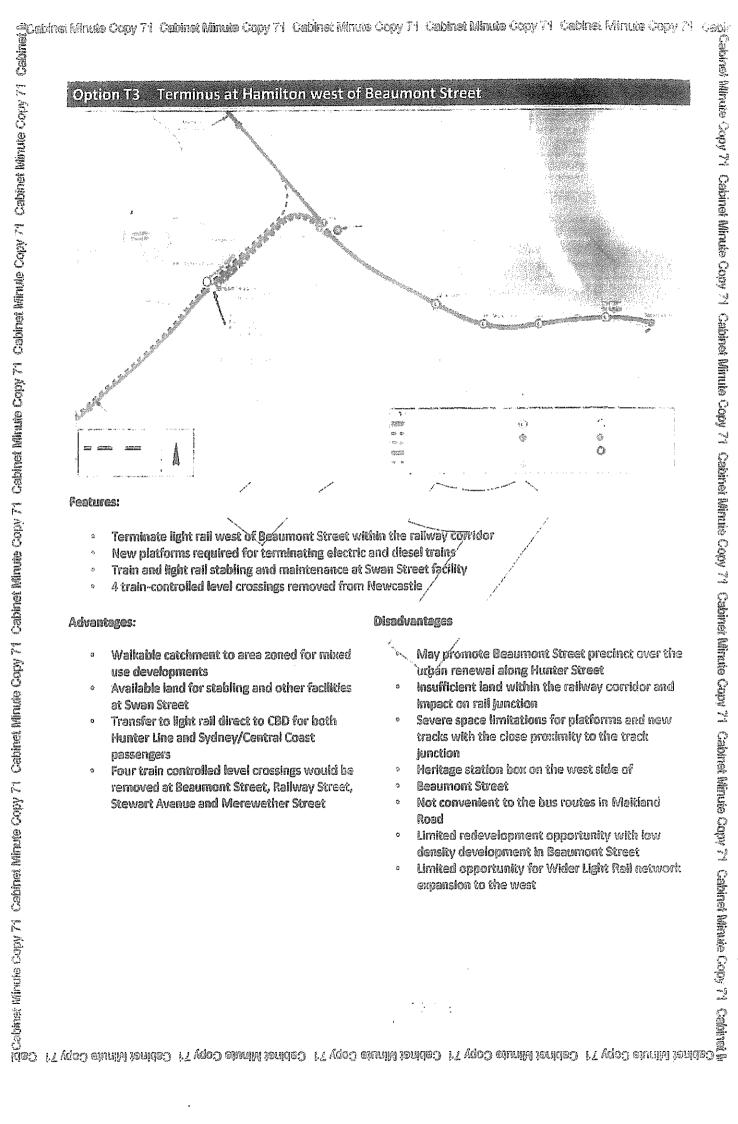
- Terminate light rail east of Beaumont Street within the railway corridor
- Reuse platforms required for terminating electric and diesel trains
- Train stabling between existing station and Maitland Road overpass
- 3 train controlled level crossings removed, Beaumont Street level crossing remains open

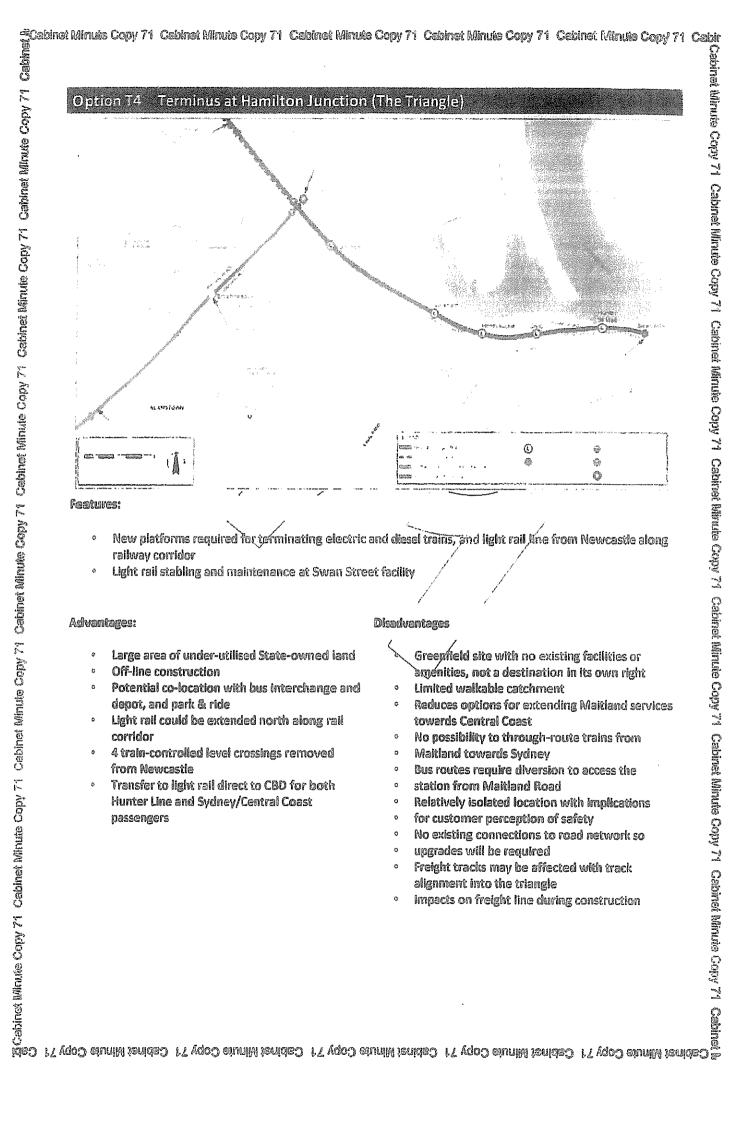
Advantages:

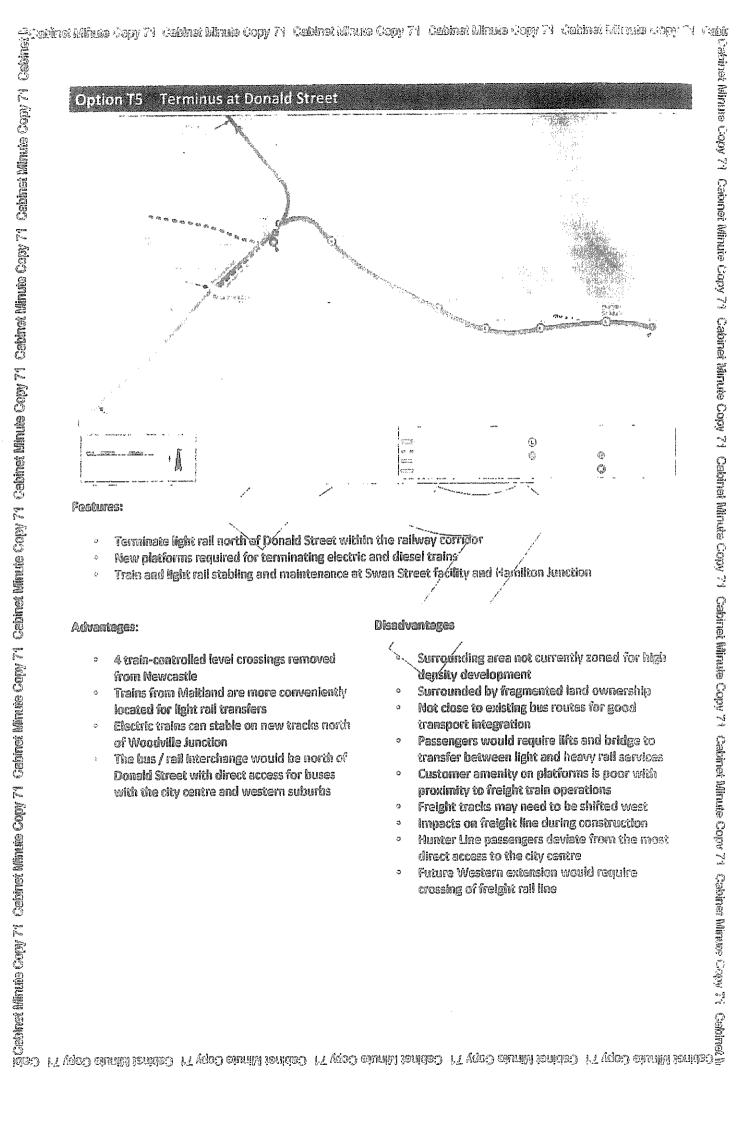
- Walkable catchment to area zoned for mixed use developments
- Residential catchment around Hamilton
- Available land for stabling east of station
- Maintenance facilities and potential light rail denot at Swan Street
- Transfer to light rail direct to CBD for both Hunter Line and Sydney/Central Coast passengers
- Potential western extension to Hunter Stadium and the Newcastle Showground via Hudson Street or Donald Street
- Train movements at Beaumont Street level crossing are reduced with stabling located to the east of the station.

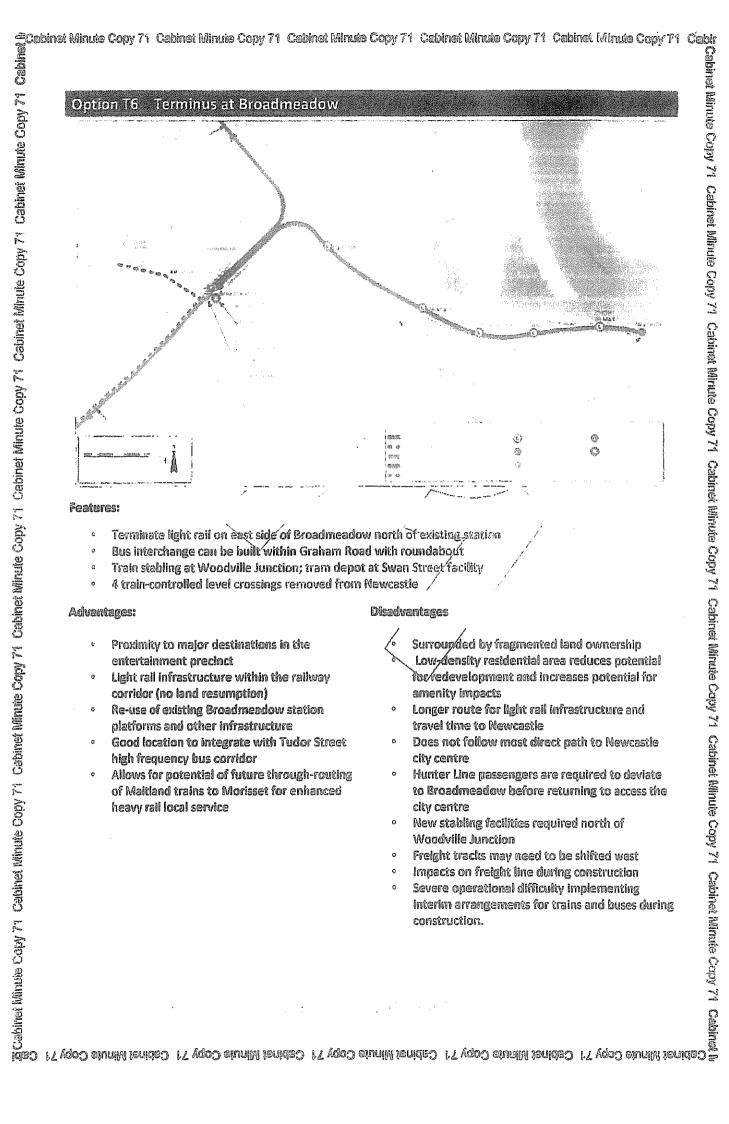
Disadvantages

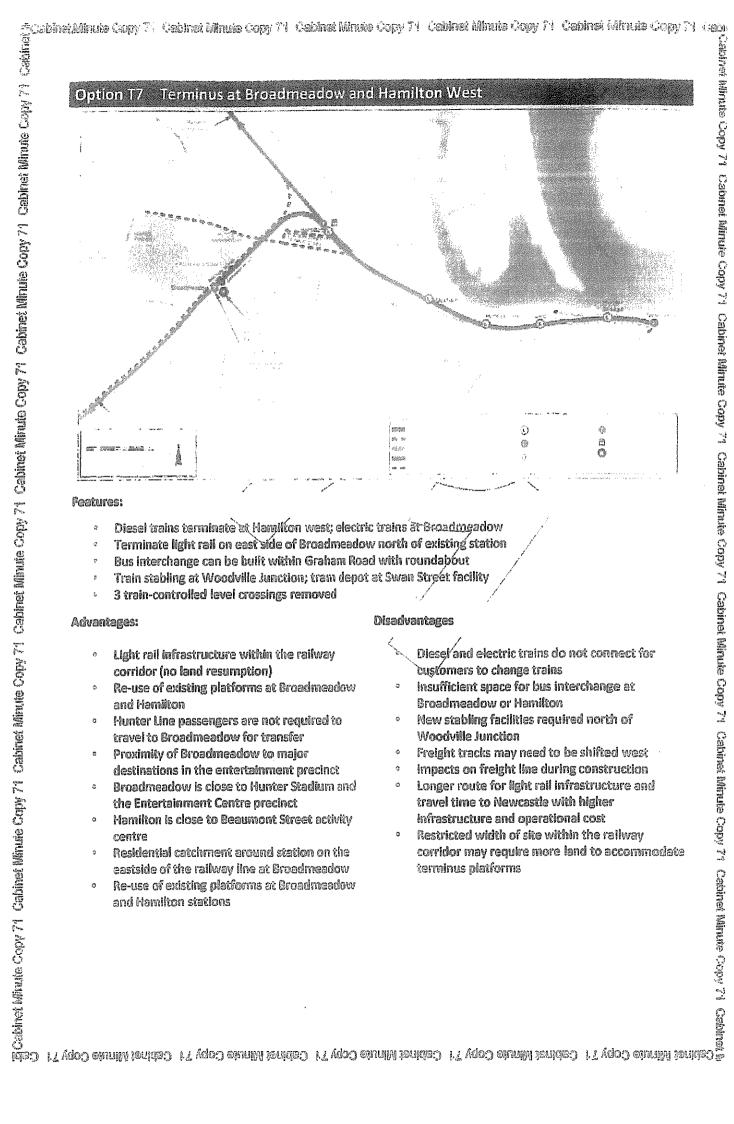
- Limited redevelopment opportunity with low depsity development in Beaumont Street
- Intensification limited by Floor Space Ratio and Building Height limits
- No major destinations in the vicinity
- May promote Beaumont Street precinct over the urban renewal along Hunter Street
- Not convenient to the bus routes in Makland Road
- Lower interchange redevelopment opportunity with low density development in Beaumont
- Beaumont Street level crossing remains open.

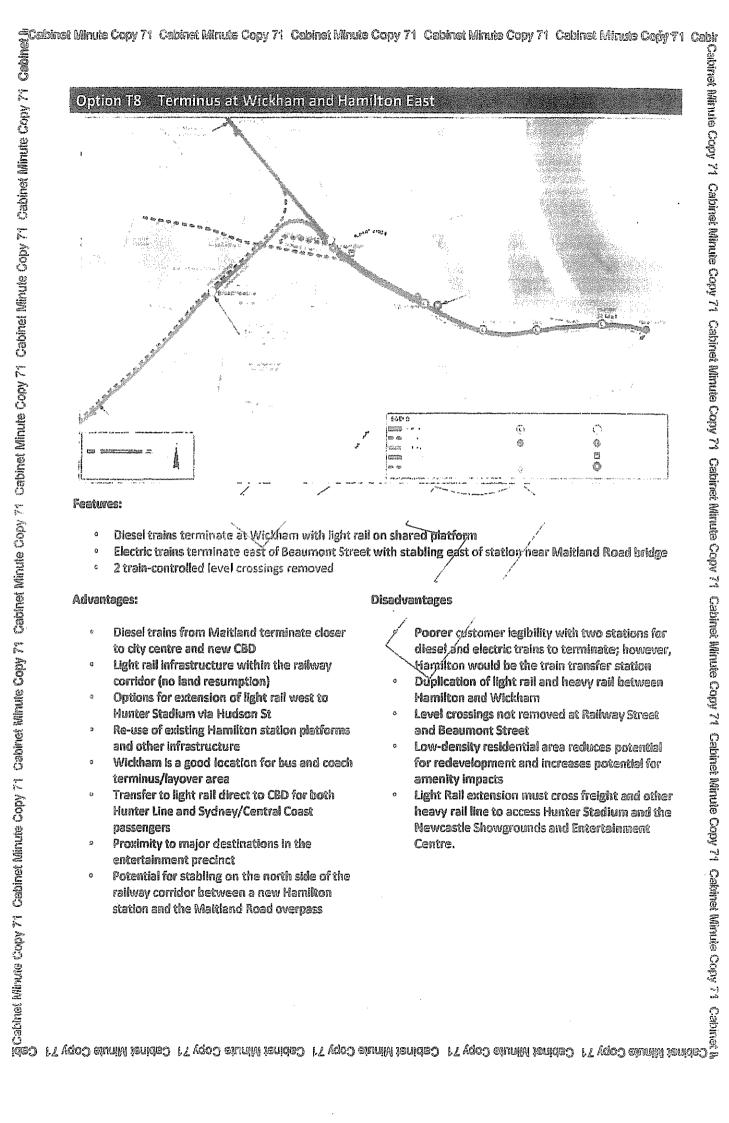






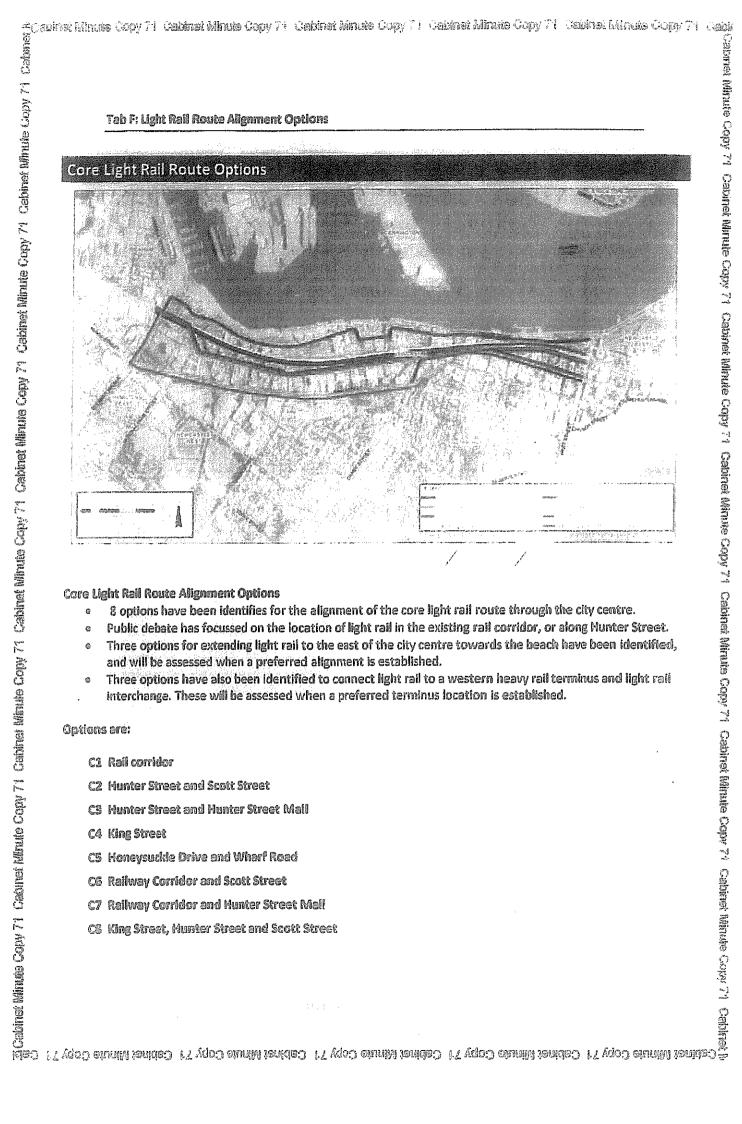


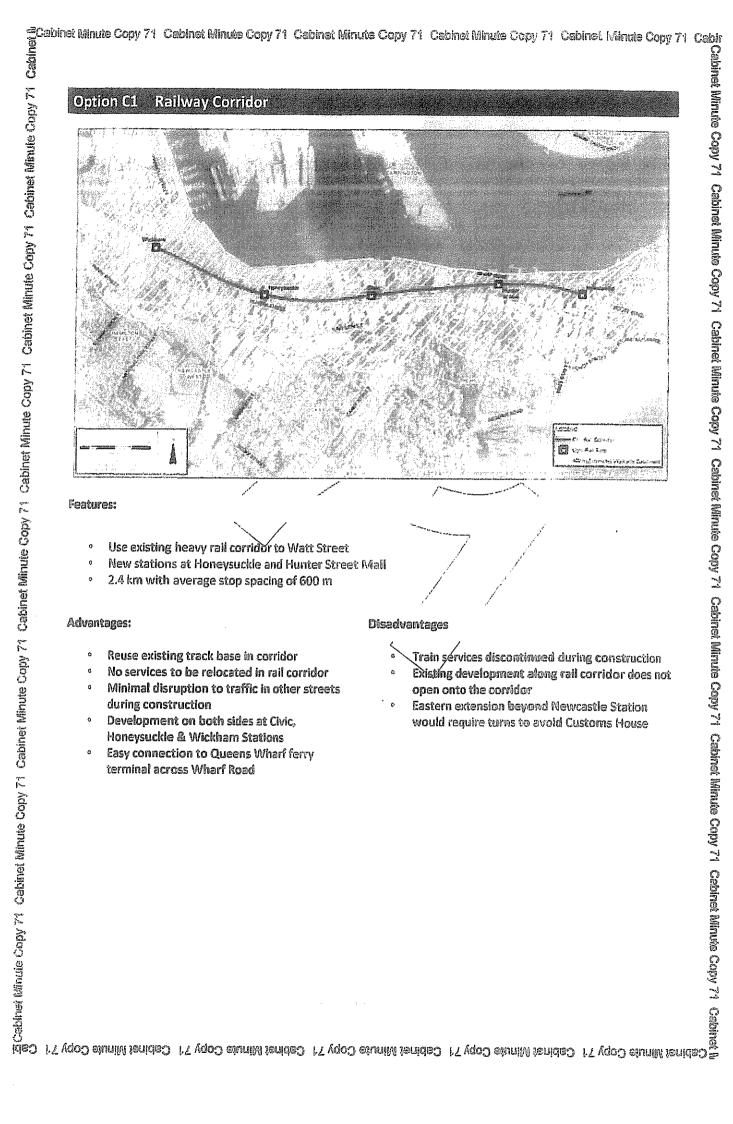


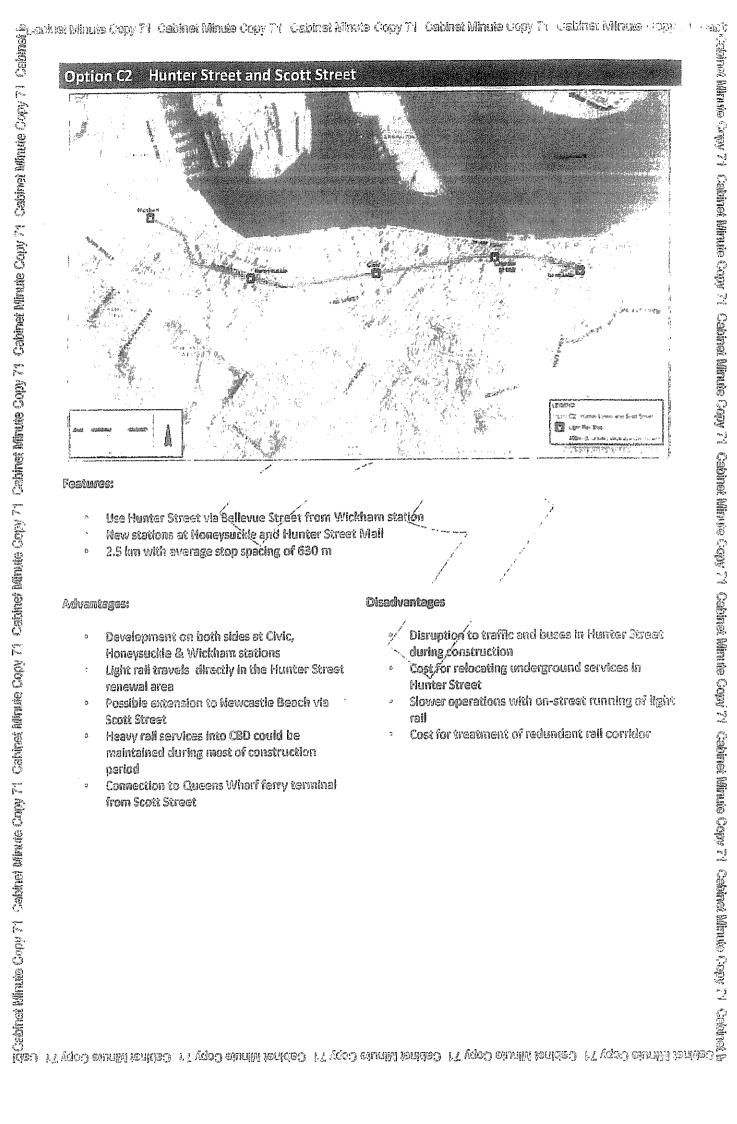


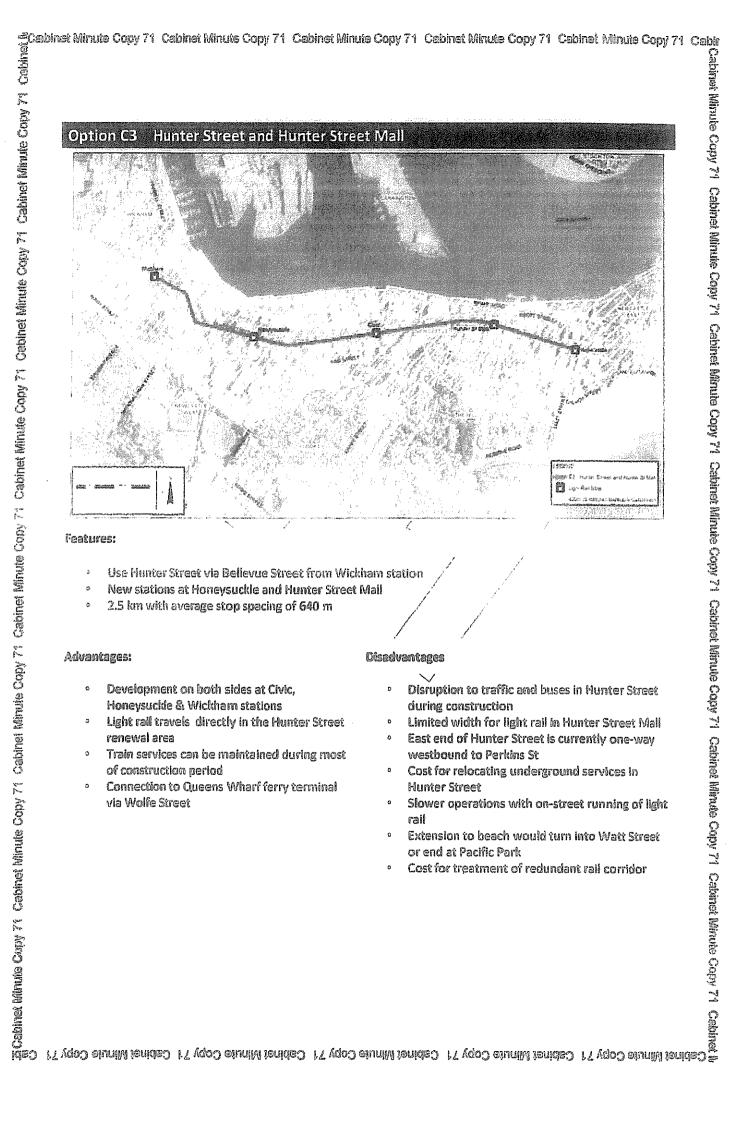
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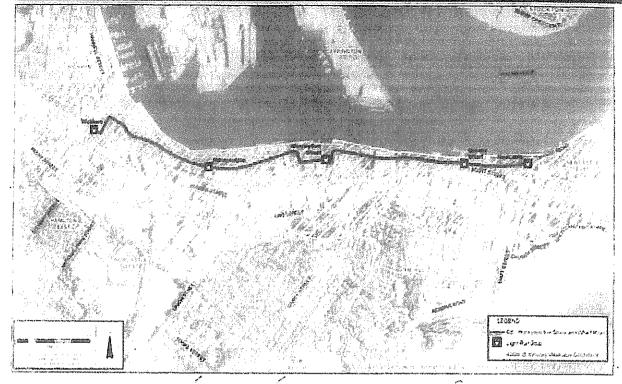






Option C4 King Street

Honeysuckle Drive and Wharf Road Option C5



Features:

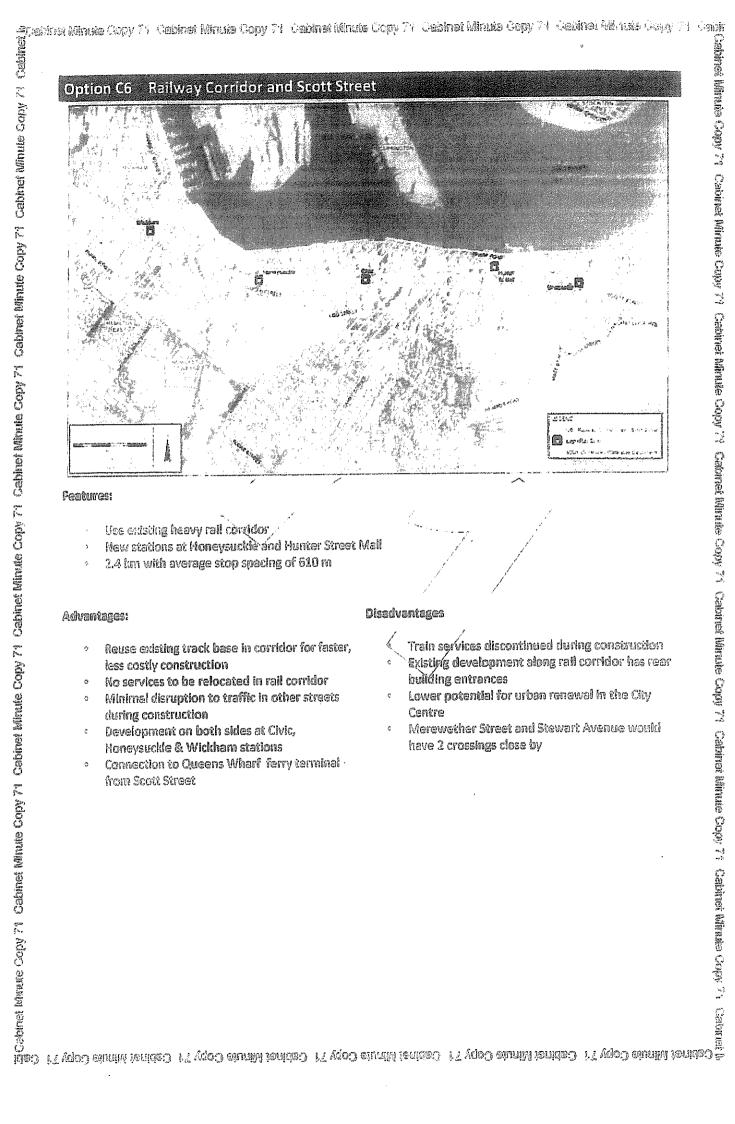
- Use of existing roads through Honeysuckle Precinct and along-foreshore
- New stations at Honeysuckle and Queens Wharf
- 2.6 km with average stop spacing of 640 m

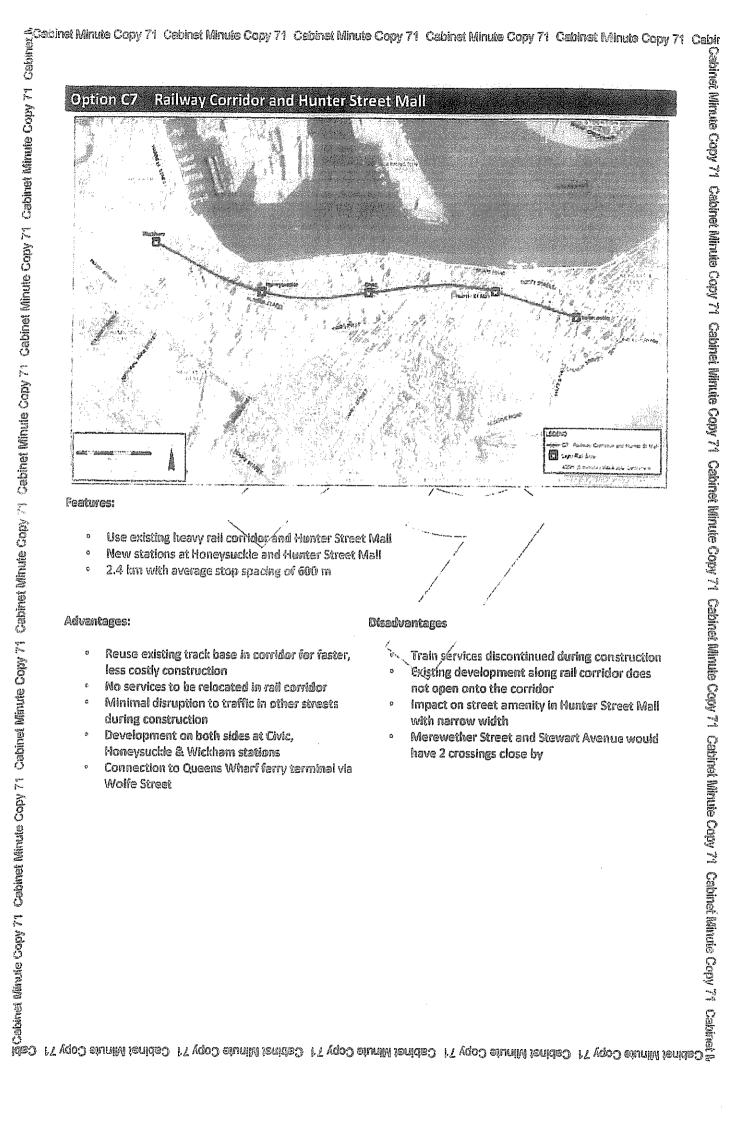
Advantages:

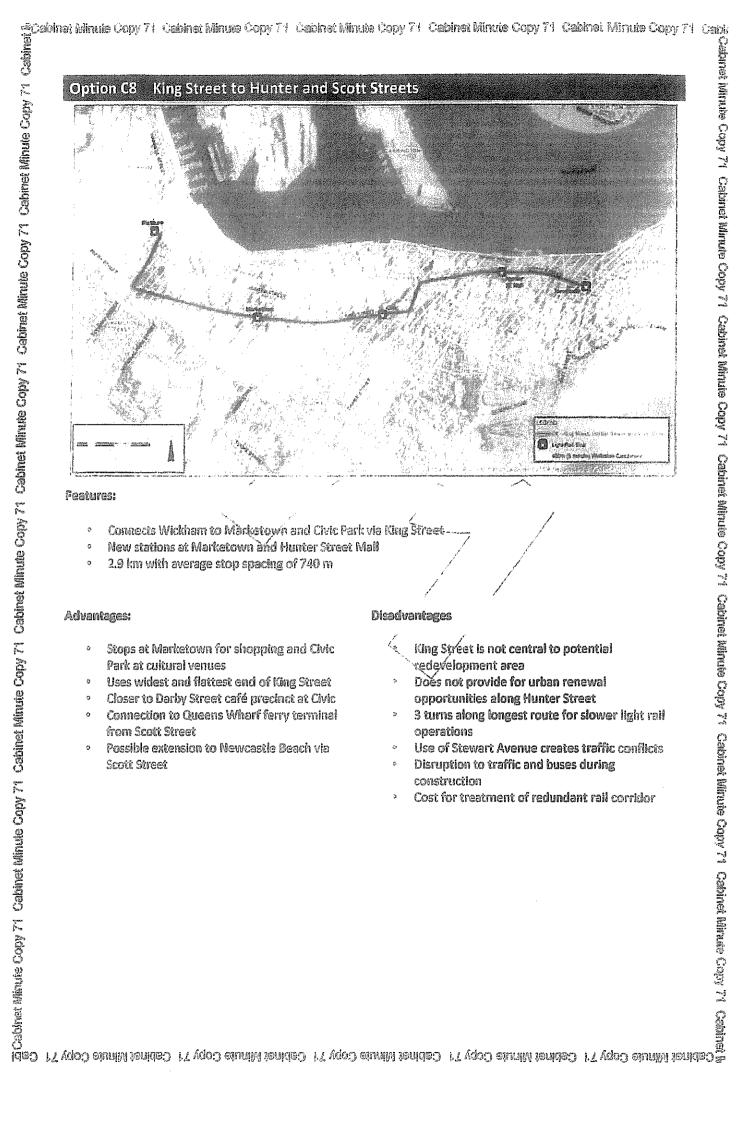
- Closest to Honeysuckle precinct and Newcastle Museum
- Development on both sides at Civic, Honeysuckle & Wickham stations
- Train services can be maintained during construction
- Convenient to Queens Wharf ferry terminal in Wharf Road

Disadvantages

- Walkable catchment is away from the City Centre
- 5 turps slow down operations; traffic impacts with use of Stewart Ave
- Potential conflicts with high pedestrian activity areas, such as Museum
- Limited potential for new development along the corridor
- Underground service relocations in Honeysuckle Drive/Wharf Road
- Cost for treatment of redundant rail corridor

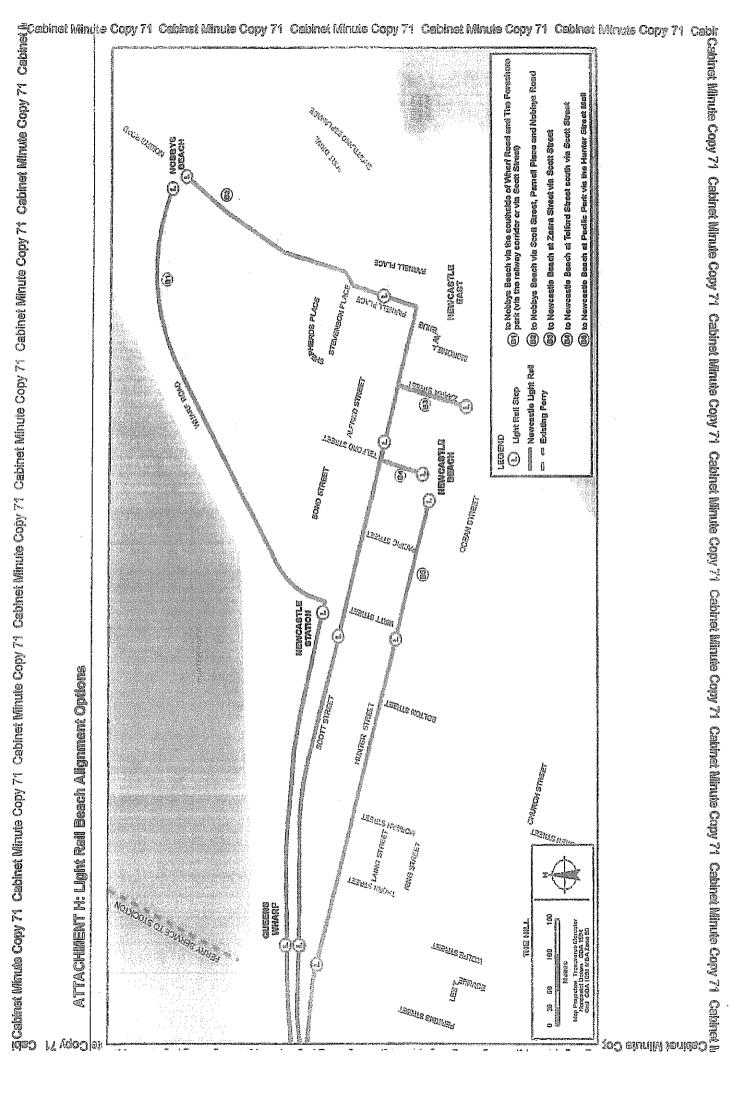






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